

Abstract

**CONTROL UNIT COMPRISING DYNAMIC FUZZY LOGIC CONTROL ELEMENTS,
TEMPORALLY DISCRETE**

The control unit (RE) of the invention has at least one control element (FA1...FA8), in particular with at least one integrating (FA6, FA8) and/or differentiating (FA7) transfer characteristic which is constructed as a temporally discrete dynamic fuzzy logic control element (FAX). A temporally discrete dynamic fuzzy logic control element (FAX) of this kind is for example a so-called fuzzy logic automaton, which has processing states ($Zm'...Zn$). It is advantageous that the control unit of the invention can be constructed with control elements that each have systematically dynamic fuzzy logic properties, and in which nonlinearities can be introduced in a targeted way for a desired control performance.

Fig. 3